

ABSTRACT:

Compensation, e.g. temperature compensation of the operating voltage of an LCD is obtained by using the V_{50} point of a test cell via the differentiated AC current (switching current of the test cell as a control parameter).

5 Fig. 1

Fig. 1 is a schematic diagram of a test cell for the compensation of the operating voltage of an LCD. The test cell consists of a liquid crystal cell (1) and a control circuit (2). The control circuit (2) is connected to the liquid crystal cell (1) and is used to control the voltage applied to the liquid crystal cell (1). The control circuit (2) is also connected to a power source (3) and a switch (4). The switch (4) is used to switch the power source (3) on and off. The control circuit (2) is also connected to a feedback circuit (5) which is used to monitor the voltage applied to the liquid crystal cell (1) and to adjust the voltage accordingly.